What is claimed is

1. A method for performing face recognition, comprising:

producing a first video image input produced from a scene sensed in the reflective domain;

producing a second video image input from said scene sensed in the thermal infrared domain;

applying non-uniformity correction (NUC) to the thermal infrared video image; and

creating a representation template for a face from a fused combination of the video images obtained from the reflective domain and the thermal infrared domain.

- 2. The method in Claim 1, including utilizing said face representation template for comparison and matching for face recognition system applications including access control, rank ordered identification and verification.
- 3. The method in Claim 2, wherein the face representation template is a single or combination of templates of fused reflective domain and thermal infrared domain imagery.
- 4. The method of Claim 2, further including automatically detecting faces in a scene to extract image region(s) in the reflective domain and thermal infrared domain from which to initiate creation of a face representation template.
- 5. The method of Claim 4, further including geometrically normalizing face image regions in the reflective domain and thermal infrared domain.

- 6. The method of Claim 5, further including assigning a set of sub-windows for geometrically normalized face image regions in the reflective domain and in the thermal infrared domain, are assigned.
- 7. The method of Claim 6, further including forming face representation templates from each sub-window.
- 8. The method of Claim 7, further including combining face representation templates for each sub-window.
- 9. The method of Claim 1, further including applying non-uniformity correction (NUC) to the thermal infrared video image.

10. An apparatus consisting of:

at least one sensor configuration for simultaneously acquiring a reflective spectrum image and a thermal infrared spectrum image and producing corresponding reflective spectrum and thermal infrared image signals; and

an interface card connected to said at least one sensor configuration to receive said reflective spectrum and thermal infrared spectrum signals and to send said signals to a memory within a computer system, and wherein said computer system is capable of processing said input reflective spectrum and thermal infrared signals to create and store a face representation template.

- 11. The apparatus of Claim 10, wherein said computer includes software using said input reflective spectrum/thermal infrared spectrum signals to produce face representation templates.
- 12. The apparatus of Claim 11, wherein said computer includes software using input reflective spectrum/thermal infrared spectrum imagery to detect faces in a scene.

- 13. The apparatus of Claim 12, wherein said has computer includes software able to compare and match face representation templates of unknown individuals, with those of known individuals
- 14. The apparatus of Claim 13, wherein said reflective domain image and thermal infrared domain image are spatially co-registered.
- 15. The apparatus of Claim 14, wherein said reflective domain is the visible spectrum and the sub-spectrum of said the thermal infrared domain is the LWIR spectrum.